


DEPARTMENT OF MECHATRONICS ENGINEERING

Name	Mr. Vaibhav Vikas Mainkar	
Designation	Assistant Professor	
Date of Birth	26 th March 1988	
Highest Qualification	M.E.	
Specialization	E&TC	
Teaching experience	13 Years	
Industrial Experience	-	
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Date of joining	20 th August 2009	

No. of Papers presented/published (National conferences)	01
Details	<ol style="list-style-type: none"> 1. National Conference on Latest Advances, Trends in Electronic Science and Technology (LATEST - 2014) © Department of Electronics, Shivaji University, Kolhapur & Department of Electronics Engineering, KIT's College of Engineering, Kolhapur, "Human Face Morphing".
No. of Papers presented/published(International conferences)	08
Details	<ol style="list-style-type: none"> 1. International Conference on Emerging Trends in Engineering and Technology (ICETET 2015), ISBN: 978-981-09-5346-1:: doi: 10.3850/978-981-09-5346-1 EEE-537, "Triangulation Method To Obtain Morphing" 2. 15th International Conference on Academic Research In Engineering Science And Technology (AREST-2017) ISBN: 978-93-85225-88-8, 12th March 2017, Pune, " HUMAN FACE MORPHING" 3. 2nd International conference on Electronics, Communication and Aerospace Technology (ICECA 2018) IEEE Conference Record # 42487; IEEE Xplore ISBN:978-1-5386-0965-1, "Image Processing Based Attendance Monitoring System" 4. International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2020) DVD Part Number: CFP20K58-DVD; ISBN: 978-1-7281-4166-4, "Voice Assisted Text Reading System for Visually Impaired Persons" 5. International conference on Electronics and Sustainable Communication Systems (ICESCS 2020) DVD Part Number: CFP20V66-DVD; ISBN: 978-1-7281-4107-7, "Handwritten Character Recognition to obtain Editable Tex" 6. First International Conference on Management, Science and Technology (ICMST-2021), ICMSTAP1016, "Node PC Removal in LAN System By Using Network Interface Card" 7. First International Conference on Management, Science and Technology (ICMST-2021), ICMSTAP1025, "Open Source Ventilator Using Arduino" 8. 1st International Conference on Advanced Computing Techniques-2021, ISBN-978-93-5473-030-6, "Medical Health Care Chain System based on IoT"

No. of Papers presented/ published(International Journal)	10
Details	<ol style="list-style-type: none"> 1. International Journal of Advance Research in Computer Science and Management Studies, Volume 3, Issue 2, February 2015 pg. 249-254, ISSN: 2321-7782 (Online) , “Morphing by Triangulation Method” 2. Imperial Journal of Interdisciplinary Research (IJIR) Vol-3, Issue-4, 2017 ISSN: 2454-1362, “Comparative Study of NAND Gate Using Different Static Logic Styles” 3. International Journal Of Innovative Research Explorer, ISSN NO: 2347-6060, Volume 5, Issue 2, FEB/2018, “Attendance Monitoring System Using Image Processing” 4. Journal of Emerging Technologies and Innovative Research (JETIR), JETIR May 2019, Volume 6, Issue 5, ISSN-2349-5162, “Face Transformation” 5. International Journal of Research and Analytical Reviews, IJRAR June 2019, Volume 6, Issue 2, E-ISSN 2348-1269, P- ISSN 2349-5138, “Voice Assisted Text Reading System” 6. Journal of Emerging Technologies and Innovative Research, JETIR June 2019, Volume 6, Issue 6, ISSN-2349-5162, “Handwritten Character Recognition” 7. International Journal of Advanced Research in Science, Communication and Technology (IJARSCT), Volume 1, Issue 2, January 2021, ISSN (Online) 2581-9429, “IoT Based Medical Health Care Chain System” 8. International Journal of Research and Analytical Reviews, IJRAR February 2021, Volume 8, Issue 1, E-ISSN 2348-1269, P- ISSN 2349-5138, “STANDBY VENTILATOR USING ARDUIN” 9. Journal of Emerging Technologies and Innovative Research, JETIR February 2021, Volume 8, Issue 2, ISSN-2349-5162 ,” NETWORK INTERFACE CARD FOR NODE PC REMOVAL IN LAN SYSTEM” 10. International Journal of Engineering Research & Technology (IJERT), ISSN: 2278-0181, Volume 9, Issue 8, Special Issue – 2021, “Medical Health Care Chain System based on IoT”
No. of seminars	09
Details	<ol style="list-style-type: none"> 1. 6-7_Nov 2020_2 days Seminar on INDUSTRY 4.0 - The Digital Covergence 2. 22 Nov 2020_1 day ORIENTATION PROGRAMME ON VIDEO RECORDING WITH OBS 3. 23 Dec 2020_Certificate program on Data Analysis in R using STATCRAFT 4. 30 Oct 2020_1 day ORIENTATION Program on GOOGLE SITES 5. 4 Mar 2022_National Intellectual Property Awareness Mission (NIPAM) 6. 18 Feb 2022_Entrepreneurship Awareness Program sponsored by MSME Governement of India 7. 24 Sep 2021_INTERNATIONAL SEMINAR on Robotics and Machine Learning 8. Training Program on “Arduino Based System” , SSPM COE, Kankavli on 5th Jan 2018 9. Training on “LaTeX” , Spoken Tutorial Project,IIT- Bombay, funded by National Mission on Education through ICT, MHRD,Govt., of India on 21st Dec 2018

No. of STTP/Workshops	50
Details	<ul style="list-style-type: none"> • STTP <ol style="list-style-type: none"> 1. STTP on “Application of MATLAB in Communication Engineering” , SSPM COE, Kankavli during 28th Dec 2009 to 1st Jan 2010 2. STTP On “Python & Pylon Programming”, SSPM COE, Kankavli during 27th to 31st Dec 2010 3. STTP on “Solar, Wind & Renewable Energy Sources”, SSPM COE, Kankavli during 30th May to 3rd June 2011 4. STTP on “Mobile Adhoc Networks & Simulation” , SSPM COE, Kankavli during 9th to 13th Jan 2012 5. STTP on “Cloud computing & software services” , SSPM COE, Kankavli during 3rd to 7th June 2013 6. 2-7_Nov 2020_AICTE Sponsored_6 days STTP Series - I on “DIGITALFARMING EXPLORATION WITH AI” 7. 7-12_Dec 2020_AICTE Sponsored_1 week STTP on Recent Advances in Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges 8. 9-13_Nov 2020_AICTE sponsored_1 week STTP on Capacity Building and Training on Geospatial Technologies (Phase-II Land and Water Management Studies - an International Perspective) 9. 10-15_Aug 2020_1 week STTP On Green Internet of Things 10. 14-19_Dec 2020_AICTE sponsored_1 week STTP on ‘Information Security and Digital Forensics’ 11. 16-21_Nov 2020_AICTE Sponsored_1 week STTP on Machine Learning and Deep Learning Techniques for Artificial Intelligence Problems using Python 12. 17-21_Nov 2020_AICTE Sponsored_6 days Virtual STTP on “Awareness of Intellectual Property Rights for Engineers and Industrialists” 13. 19-24_Oct 2020_AICTE sponsored_6 day STTP on “A Hands - on Approach for Design & Implementation of Digital 14. 23 Nov_1 Dec 2020_AICTE sponsored_6 day STTP on “High Intense Course on Machine Learning with MATLAB”, 15. 23-27_Nov 2020_AICTE sponsored_1 week STTP on Capacity Building and Training on Geospatial Technologies (Phase-III “R.S. and G.I.S. for Coastal Zone Management” - An International Perspective) 16. 26-31_Oct 2020_AICTE sponsored_1 week STTP on Capacity building and training on Geospatial Technology 17. 28 Dec 2020_2 Jan 2021_5 days STTP on Developing MOOCs_Need of an hour 18. 30 Nov_5 Dec 2020_AICTE Sponsored_6 days STTP on Digital Farming Exploration with AI_Phase-III 19. 17-23 Mar 2022_ STTP on Statistical Modelling and Analysis of Advanced Wireless Communication Systems • Workshop <ol style="list-style-type: none"> 1. Workshop on “LATEX”, K.I.T’s COE, Kolhapur on 5th May 2012 2. Workshop on “Moodle Learning Management System” conducted by IIT- Bombay on 15th March 2019 3. Workshop on “Python” conducted by IIT- Bombay on 22nd June 2019

4. 2-7_Nov 2020_Science Academies Lecture Workshop on Linear Transformations, Matrices, and Their Applications-2020
5. 3 Oct 2020_1 day national workshop on How To Plan a Research
6. 7 Sep 2020_1 day workshop on Recent Advancement in Science & Technology
7. 10-11_Aug 2020_2 days workshop on simple online teaching methods for teacher
8. 10-12_Aug 2020_3 days workshop on Introduction to IOT & Arduino
9. 14-16_Dec 2020_3 Day National Workshop on “5G Wireless Communication and Antenna Design Using MATLAB and Simulink”
10. 16-17_Aug 2020_2 dys workshop on Application of Remote Sensing and GIS in Disaster Management
11. 18 Oct 2020_1 day WORKSHOP ON CREATION OF EDUCATIONAL VIDEO WITH VIDEO EDITOR
12. 19 Nov 2020_1 day workshop ON PRIMER - THE STATISTICAL SOFTWARE THAT EMPOWERS RESEARCHERS
13. 30-31_Dec 2020_2 days_workshop on Intellectual Property Rights
14. 31 Oct 2020_1 day workshop on Intellectual property rights

• **FDP**

1. FDP on “Image Processing-Advances & Research Challenges”, SINGHGAD COE, Vadgoan(Bk),Pune during 11th to 15th Dec 2017
2. FDP on “Introduction to Internet of Things”, NPTEL IIT-Madras during Jul-Oct 2018 (12Week=1.5FDP)
3. FDP on “Introduction To Research”, NPTEL IIT-Madras during Aug-Oct 2019 (8Week=1 FDP)
4. FDP on “The Joy of Computing using Python”, NPTEL IIT-Madras during July-Oct 2021 (12Week=1.5FDP)
5. 3-9_Nov 2020_1 week FDP on “Research Methodologies in Legal Studies”
6. 6-8_Nov 2020_3 daysl FDP on Online Teaching & Learning Tools
7. 7-19_Dec 2 week AICTE Sponsored FDP on “Recent Trends in VLSI Design, Signal Processing & Optimization based on EDA tools”
8. 10 Aug_15 Dec 2020_16 week online course on Signals and Systems
9. 14-19_Sep 2020_1 week FDP on AI- Using python
10. 16-21_Nov 2020_ISTE SPONSORED_6 days VIRTUAL INDUSTRIAL INTERNSHIP PROGRAM ON IOT
11. 19-25_Nov 2020_1 week FDP on Revised NAAC Assessment and Accreditation Framework for Teacher Education Institutions
12. 20-21_Nov 2020_2 day FDP on MS Excel Essentials for Academicians
13. 23 Nov_5 Dec 2020_AICTE Sponsored_2 week FDP on Teaching Learning Methods towards OBE
14. 26-31_Oct 2020_1 week International Research Orientation Programme
15. 30 Sep_2 Oct_3 2020 days FDP on HYDROGEN FUEL CELL TECHNOLOGY-Will it contributes to energy independence
16. 2-7 May 2022_One Week_FDP_on Research Methodology
17. 28Mar-1Apr 2022_FDP on Current Research Trends in Computer Engineering

No. of projects guided at UG level	17
Details	<ol style="list-style-type: none"> 1. Banking Locker Security System Using Smart Card (2010-11) 2. RFID Based Sales Checkout System (2011-12) 3. Wi-tricity Based Device Charger (2012-13) 4. Image Processing Emphasis on Face Morphing (2013-14) 5. Consumer Electronics Control System Based on Hand Gesture 6. Online Voting System (2013-14) 7. RFID Based Document Verification (2014-15) 8. Short Range FM Transmitter (2015-16) 9. Wireless assistive technology based on Magnetic Sensor (2016-17) 10. Image Processing Based Attendance Monitoring System (2017-18) 11. Dual Band And Circularly Polarized Micro strip Patch Antenna For Mobile Communication (2018-19) 12. Voice Assisted Text Reading System For Visually Impaired Persons (2019-20) 13. Handwritten Character Recognition to obtain Editable Text (2019-20) 14. Network interface card for node PC removal (2020-21) 15. IoT based medical health care chain system (2020-21) 16. Standby ventilator using Arduino (2020-21) 17. Fog hand wash machine to save the water (2021-22)
Membership in Professional Bodies	-
Research / Sponsored / Consultancy Projects	-
Awards / Honours / Prizes	<ul style="list-style-type: none"> • Certificate of Coordination from Indian Institute of Remote Sensing/Indian Space Research Organization/ Department of Space Government of India online Distance Learning Programme for conduction of <ol style="list-style-type: none"> 1. 66-Global Navigation Satellite System during 14-25 Sep. 2020 2. 72-Basics of Geo computation and Geo web Services during 19-29 Oct. 2020 3. 76-GIS for supply chain management during 26-30 Apr. 2021 4. 82-IIRS Outreach Programme on Machine learning to Deep Learning A journey for remote sensing data classification during 5-9 July 2021 5. 98- IIRS Outreach Programme on Artificial Intelligence (AI) for Earth Observation (EO) and Geodata Handling and Processing during 2-13 May 2022 6. 1014-Earth Observation based Mapping, Monitoring and Modelling of Landslide Recent trends and support to early warning system on 21 April 2021 7. 1022- IIRS Outreach Programme on Planetary Exploration of the Moon Findings from Indian Remote Sensing Missions on 20 May 2022 • NPTEL certification <ol style="list-style-type: none"> 1. NPTEL Online Certification on “ Introduction to Internet of Things” conducted by IIT-Kharagpur during Jul-Oct 2018 2. NPTEL Online Certification on “Digital Circuits” conducted by IIT-Kharagpur during Jul-Oct 2018 3. NPTEL Online Certification on “Principles of Signals & Systems” conducted by IIT-Madras during Jan-Apr 2019 4. NPTEL Online Certification on “Introduction To Research”

	<p>conducted by IIT-Madras during Aug-Oct 2019</p> <p>5. NPTEL Online Certification on “The Joy of Computing using Python” conducted by IIT-Madras during July-Oct 2021</p> <ul style="list-style-type: none"> • Certificate of appreciation as a mentor for the NPTEL online certification course “Principles of Signals & Systems” during Jan-Apr 2019
No. of Books published	-
Details	-